

What is claimed is:

1. A data processing device comprising:

a plurality of connection terminals for
establishing electric contact to receive signals and
drive electric power, one of said connection terminals
5 comprising a reset terminal;

an antenna for receiving signals and drive
electric power as a radio wave;

data processing means switchable between a
terminal mode for processing data based on an effective
10 input signal applied to said connection terminals and an
RF mode for processing data based on an effective input
signal applied to said antenna, said data processing
means being supplied with said signals and drive electric
power from one of said connection terminals and said
15 antenna depending on one of said terminal mode and said
RF mode which is set; and

mode switching means for setting said data
processing means to said RF mode in response to a
predetermined radio wave applied to said antenna and
20 setting said data processing means to said terminal mode
in response to a reset signal applied to said reset
terminal.

2. A data processing device according to claim
1, wherein said mode switching means comprises means for

setting said data processing means to said RF mode when
no reset signal is detected.

3. A data processing device according to claim
1, wherein said mode switching means comprises means for
detecting whether the reset signal is applied to said
reset terminal or not while said data processing means is
5 being set to said RF mode.

4. A data processing device according to claim
2, wherein said mode switching means comprises means for
detecting whether the reset signal is applied to said
reset terminal or not while said data processing means is
5 being set to said RF mode.

5. A data processing device according to claim
4, further comprising a power line and a pull-up
resistor, wherein said reset terminal is connected to
said power line through said pull-up resistor.

6. A data processing device according to claim
4, wherein said mode switching means comprises means for
setting said data processing means to said terminal mode
when the reset signal applied to said reset terminal is
5 detected even while said data processing means has been
set to said RF mode in response to said predetermined

radio wave applied to said antenna.

7. A data processing device according to claim 1, wherein said mode switching means comprises means for detecting said predetermined radio wave applied to said antenna even while said data processing means has been
5 set to said terminal mode.

8. A data processing device according to claim 4, wherein said mode switching means comprises means for detecting said predetermined radio wave applied to said antenna even while said data processing means has been
5 set to said terminal mode.

9. A data processing device according to claim 1, further comprising:

power extracting means for extracting drive electric power from a radio wave applied to said antenna;

5 power limiting means for limiting voltage of the drive electric power extracted by said power extracting means to a predetermined voltage; and

limiting control means for turning off said power limiting means when said data processing means has
10 been set to said terminal mode.

10. A data processing device according to

claim 4, further comprising:

power extracting means for extracting drive electric power from a radio wave applied to said antenna;

5 power limiting means for limiting voltage of the drive electric power extracted by said power extracting means to a predetermined voltage; and

limiting control means for turning off said power limiting means when said data processing means has
10 been set to said terminal mode.

11. A data processing device according to claim 9, wherein said mode switching means comprises means for detecting an input signal applied to said antenna even while said data processing means has been
5 set to said terminal mode, and said limiting control means comprises means for turning on said power limiting means if said mode switching means detects an input signal applied to said antenna when said data processing means has been set to said terminal mode and said power
10 limiting means has been turned off.

12. A data processing device according to claim 10, wherein said mode switching means comprises means for detecting an input signal applied to said antenna even while said data processing means has been
5 set to said terminal mode, and said limiting control

means comprises means for turning on said power limiting means if said mode switching means detects an input signal applied to said antenna when said data processing means has been set to said terminal mode and said power limiting means has been turned off.

13. A method of controlling operation of a data processing device having a plurality of connection terminals for establishing electric contact to receive signals and drive electric power, one of said connection terminals comprising a reset terminal, an antenna for receiving signals and drive electric power as a radio wave, and data processor switchable between a terminal mode for processing data based on an effective input signal applied to said connection terminals and an RF mode for processing data based on an effective input signal applied to said antenna, said data processor being supplied with said signals and drive electric power from one of said connection terminals and said antenna depending on one of said terminal mode and said RF mode which is set, said method comprising the steps of:

setting said data processor to said RF mode in response to a predetermined radio wave applied to said antenna; and

setting said data processor to said terminal mode in response to a reset signal applied to said reset

terminal.